



INTELLECTUAL PROPERTY
402-391-4448

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June 14, 2003

Commissioner for Patents
BOX: 1450
Alexandria, VA 22313-1450

RE: PUBLISHED APPLICATION OF KWON TITLED: "METHODS AND APPARATUS FOR DETERMINING OPTICAL CONSTANTS OF SEMICONDUCTORS AND DIELECTRICS WITH INTERBAND STATES";
PUB. NO. US2003/0073254A1;
PUB. DATE: APR. 17, 2003;
APPL. NO. 09/_____
963 638

OPPOSITION

Dear Sir;

Accompanying hereiwith is a check for \$180.00, a Listing of, and copies of materials we feel should be considered in the examination of the identified Patent Application.

LISTING

Patent No. 4,332,833, Serial No. 126,217, Issued Jun. 1, 1982 to Aspnes et al.

Patent No. 6,362,881 B1 to Pickering et al., Serial No. 09/297,819, Issued Mar. 26, 2002.

"Modeling the Optical Dielectric Function of Semiconductors: Extension of the Critical-Point Parabolic-Band Approximation"; Kim, Physical Rev.B, Vol. 45, No. 20, (May 1992).

"Parameterization of the Optical Functions of Amorphous Materials in the Interband Region", Jellison et al., Appl. Phys. Lett. 69(3) (July 1996).

"Optical Dispersion Relations for Amorphous Semiconductor and Amorphous Dielectrics", Forouhi & Bloomer, Phys. Rev. B, Vol. 34, No. 10, (Nov. 1986).

"Optical Dispersion Relations for Si and Ge", Adachi, J. App. Phys. 66(7), (Oct. 1989).

From Optical Metrology, "Overview of Variable Angle Spectroscopic Ellipsometry (VASE), Part II, Johs et al., Soc. Photo-Opt. Instrum. Eng. (1999).



"Optical Properties of Bulk and Thin-Film Sr-TiO₂ on Si and PT",
Zollner et al., J. Vac. Sci. Technol. B 19(4) (2000).

From Wiley Encyclopedia of Electrical and Electronics
Engineering---Supplement 1, Editor Webster, John Wiley & Sons,
(2000).

"Development of a Parametric Optical Constant Model for
Hg₁₀O_xCd_xTe for Control of Composition by Spectroscopic
Ellipsometry During MBE Growth", Johs et al., Thin Solid Films,
313-314 (1998).

Service was made on the Applicant's Attorney, Antonelli
Terry Stout and Kraus at Suite 1800, 1300 North Seventeenth
Street, Arlington, VA 22209, via First Class Mail sent on
June 14, 2003

Sincerely,
JAMES D. WELCH
JW/hs
enc.